

Date: January 23, 2001

Express Mail Label: EL679454280 US

Date of Deposit: January 23, 2001

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01-24-01

01/23/01  
1c975 U.S. PRO

Transmitted herewith for filing is the Patent Application of:

Inventors: Hiroshi Niwa, Hidefumi Yamashita, Tatsushi Koike, Yoshiaki Ohbayashi

LIQUID CRYSTAL DISPLAY AND METHOD FOR MANUFACTURING LIQUID CRYSTAL DISPLAY

Enclosed are: [X] 36 sheets of specification; [X] 1 sheet(s) of Abstract; [X] 6 sheet(s) of claims; [X] 7 sheet(s) of drawing(s);

[ ] An assignment of the invention to: International Business Machines Corporation, Armonk, New York,  
with Recordation Form.

[ ] Declaration and Power of Attorney.

[X] A certified copy of Japanese application, from which priority under Title 35 USC §119 is claimed.

[ ] Associate Power of Attorney.

6690 U.S. PRO  
09/767588  
01/23/01

The filing fee has been calculated as shown below:

|  | (Col. 1)  | (Col. 2)  |
|--|-----------|-----------|
| FOR:                                   | NO. FILED | NO. EXTRA |
| BASIC FEE                              |           |           |
| TOTAL CLAIMS                           | 15 -20 =  | 0         |
| INDEP CLAIMS                           | 5 -3 =    | 2         |
| MULTIPLE DEPENDENT CLAIMS<br>PRESENTED |           |           |

OTHER THAN A  
SMALL ENTITY

| RATE     | FEE       |
|----------|-----------|
|          | \$ 710.00 |
| X \$18 = | \$ .00    |
| X \$80 = | \$ 160.00 |
| + 270 =  |           |
| TOTAL    | \$ 870.00 |

= If the difference in Col. 1 is less than zero, enter "0"  
in Col. 2.

[ ] Checks in the amount of \$\_\_\_\_\_ and \$\_\_\_\_\_ to cover the filing fee(s) and recording fee are enclosed.

[X] Please charge my Deposit Account No. 50-0510/IBM (Yorktown Heights) in the amount of \$870.00.

[X] The Commissioner is hereby authorized to charge payment of the following fees  
associated with this communication or credit any overpayment to  
Deposit Account No. 50-0510/IBM (Yorktown Heights). A duplicate copy of this sheet is enclosed.

[X] Any additional filing fees required under 37 CFR 1.16.

[X] Any patent application processing fees under 35 CFR 1.17.

Respectfully submitted,

By:

Frank Chau  
Registration No. 34,136  
Attorney for:  
IBM Corporation  
Intellectual Property Law Dept.  
P.O. Box 218  
Yorktown Heights, NY 10598

Please address all  
correspondence to:


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1900 Hempstead Turnpike, Suite 501  
East Meadow, NY 11554  
Tel: (516) 357-0091  
Fax: (516) 357-0092

**CERTIFICATION UNDER 37 C.F.R. § 1.10**

I hereby certify that this Application transmittal and the documents referred to as enclosed are being deposited with the United States Postal Service on this date January 23, 2001 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EL679454280US addressed to: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Frank Chau

01/23/01  
1c975 US  
PTO

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PTO/SB/05 (11-00)  
Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

|                        |                                      |
|------------------------|--------------------------------------|
| Attorney Docket No.    | JP9-2000-0068US1 (8728-470)          |
| First Inventor         | NIWA et al.                          |
| Title                  | Liquid Crystal Display and Method... |
| Express Mail Label No. | EL679454280US                        |

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 43]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 7]
5. ☐ Oath or Declaration [Total Pages     ]
  - a. ☐ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)
  - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS


9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☒ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other: .....

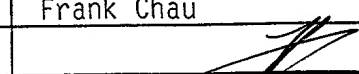
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

|   |                                     |   |                                 |
|---|-------------------------------------|---|---------------------------------|
| <input type="checkbox"/> Continuation         | <input type="checkbox"/> Divisional | <input type="checkbox"/> Continuation-in-part (CIP) | of prior application No.: _____ |
| Prior application information: Examiner _____ |                                     | Group Art Unit: _____                               |                                 |

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

|  |   |           |              |   |
|--|---|-----------|--------------|---|
| <input type="checkbox"/> Customer Number or Bar Code Label |  |           | or           | <input type="checkbox"/> Correspondence address below |
| (Insert Customer No. or Attach bar code label here)        |   |           |              |   |
| Name   | Frank Chau  |           |              |   |
| Address  | F. CHAU & ASSOCIATES, LLP   |           |              |   |
|  | 1900 Hempstead Turnpike, Suite 501  |           |              |   |
| City   | East Meadow   | State     | NY           | Zip Code 11554  |
| Country  | USA   | Telephone | 516-357-0091 | Fax 516-357-0092                                      |

|                   |   |                                   |         |
|-------------------|---|-----------------------------------|---------|
| Name (Print/Type) | Frank Chau  | Registration No. (Attorney/Agent) | 34,136  |
| Signature         |  | Date                              | 1/23/01 |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

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# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 870.00

## Complete if Known

Application Number  
Filing Date January 23, 2001  
First Named Inventor NIWA et al.  
Examiner Name  
Group Art Unit  
Attorney Docket No. JP9-2000-0068US1 (8728-470)

## METHOD OF PAYMENT

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to.

Deposit Account Number 50-0510/IBM  
Deposit Account Name IBM/Yorktown Heights

- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description        | Fee Paid |
|----------------------------|----------------------------|------------------------|----------|
| 101 710                    | 201 355                    | Utility filing fee     | 710      |
| 106 320                    | 206 160                    | Design filing fee      |          |
| 107 490                    | 207 245                    | Plant filing fee       |          |
| 108 710                    | 208 355                    | Reissue filing fee     |          |
| 114 150                    | 214 75                     | Provisional filing fee |          |

SUBTOTAL (1) (\$ 710.00

### 2. EXTRA CLAIM FEES

Total Claims 15 -20\*\* = 0 x 18 = 0  
Independent Claims 5 -3\*\* = 2 x 80 = 160  
Multiple Dependent 270 =

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description  |
|----------------------------|----------------------------|--|
| 103 18                     | 203 9                      | Claims in excess of 20                                     |
| 102 80                     | 202 40                     | Independent claims in excess of 3                          |
| 104 270                    | 204 135                    | Multiple dependent claim, if not paid                      |
| 109 80                     | 209 40                     | ** Reissue independent claims over original patent         |
| 110 18                     | 210 9                      | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$ 160

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description  | Fee Paid |
|----------------------------|----------------------------|--|----------|
| 105 130                    | 205 65                     | Surcharge - late filing fee or oath  |          |
| 127 50                     | 227 25                     | Surcharge - late provisional filing fee or cover sheet                     |          |
| 139 130                    | 139 130                    | Non-English specification  |          |
| 147 2,520                  | 147 2,520                  | For filing a request for <i>ex parte</i> reexamination                     |          |
| 112 920*                   | 112 920*                   | Requesting publication of SIR prior to Examiner action                     |          |
| 113 1,840*                 | 113 1,840*                 | Requesting publication of SIR after Examiner action                        |          |
| 115 110                    | 215 55                     | Extension for reply within first month                                     |          |
| 116 390                    | 216 195                    | Extension for reply within second month                                    |          |
| 117 890                    | 217 445                    | Extension for reply within third month                                     |          |
| 118 1,390                  | 218 695                    | Extension for reply within fourth month                                    |          |
| 128 1,890                  | 228 945                    | Extension for reply within fifth month                                     |          |
| 119 310                    | 219 155                    | Notice of Appeal   |          |
| 120 310                    | 220 155                    | Filing a brief in support of an appeal                                     |          |
| 121 270                    | 221 135                    | Request for oral hearing   |          |
| 138 1,510                  | 138 1,510                  | Petition to institute a public use proceeding                              |          |
| 140 110                    | 240 55                     | Petition to revive - unavoidable   |          |
| 141 1,240                  | 241 620                    | Petition to revive - unintentional   |          |
| 142 1,240                  | 242 620                    | Utility issue fee (or reissue)   |          |
| 143 440                    | 243 220                    | Design issue fee   |          |
| 144 600                    | 244 300                    | Plant issue fee  |          |
| 122 130                    | 122 130                    | Petitions to the Commissioner  |          |
| 123 50                     | 123 50                     | Processing fee under 37 CFR 1.17(q)  |          |
| 126 180                    | 126 180                    | Submission of Information Disclosure Stmt                                  |          |
| 581 40                     | 581 40                     | Recording each patent assignment per property (times number of properties) |          |
| 146 710                    | 246 355                    | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |
| 149 710                    | 249 355                    | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
| 179 710                    | 279 355                    | Request for Continued Examination (RCE)                                    |          |
| 169 900                    | 169 900                    | Request for expedited examination of a design application                  |          |

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0

## SUBMITTED BY

Name (Print/Type) Frank Chau  
Registration No. (Attorney/Agent) 34,136  
Telephone 516-357-0091  
Signature  
Date 1/23/01

Complete (if applicable)

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